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Hide? Set Name Query**Hit Count***DB=PGPB; USPT; PLUR=YES; OP=OR*☐ L19 L14 and device 1 ←☐ L18 17 and immobilization adj island 0*DB=USPT; PLUR=YES; OP=OR*☐ L17 17 and (biophilic or biophobic) 0*DB=PGPB; PLUR=YES; OP=OR*☐ L16 L14 and terminal adj amino 1☐ L15 L14 and terminal adj reactive 1☐ L14 L13 and immobilization adj island 1☐ L13 L12 and biophilic 1☐ L12 20040023414.pn. and biophobic 1☐ L11 20040023414.pn. and bond 1*DB=USPT; PLUR=YES; OP=OR*☐ L10 20040023414.pn. 0☐ L9 20040023414.pn. and bound 0☐ L8 20040023414.pn. and bond 0☐ L7 6368877.pn. 1☐ L6 6368877.pn. and device 0 ←*DB=PGPB; PLUR=YES; OP=OR*☐ L5 20040023414.pn. and device 1 ←*DB=USPT; PLUR=YES; OP=OR*☐ L4 dendrimer and nanocrystallite 3☐ L3 L2 and dendrimer 89☐ L2 triethylene adj glycol 25495☐ L1 6368877.pn. 1

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L19: Entry 1 of 1

File: PGPB

Feb 5, 2004

DOCUMENT-IDENTIFIER: US 20040023414 A1

TITLE: Self-assembling peptide surfaces for cell patterning and interactions

Pre-Grant Publication (PGPub) Document Number:20040023414

CLAIMS:

1. A device comprising: a solid support; and an array of isolated regions on the support, the array comprising a layer of peptides, wherein the peptides are bound to the support by a bond between the support and a terminal amino acid in a preselected, reproducible pattern.
2. The device of claim 1 further comprising a background region surrounding the isolated regions, wherein the peptides are not bound to the background region.
3. The device of claim 2 wherein the background region comprises an inert compound.
4. A device comprising: a solid support; and an isolated region comprising a layer of peptides, wherein the peptides are bound to the support by a bond between the support and a terminal reactive group in a preselected, reproducible pattern.
5. The device of claim 4 comprising a plurality of isolated regions of a self-assembled monolayer, the plurality of regions defining an ordered array on the support.
6. A device comprising: a solid support; an isolated region comprising a self-assembled monolayer of peptides, wherein the peptides are bound to the support by a bond between the support and a terminal reactive group in a preselected, reproducible pattern; and a background region surrounding the isolated region and comprising a compound which can react with the support.
7. A device for immobilizing at least one biological material in a specific and predetermined pattern comprising: a surface, an array of immobilization islands in a specific and predetermined pattern over the surface isolated from each other by at least one background region, the array of immobilization islands comprising a first self-assembled monolayer comprising at least one first functional group wherein the at least one first functional group is selected to be biophilic, and wherein the first self-assembled monolayer comprises a monolayer of linear peptides, the at least one background region comprising a second self-assembled monolayer having a second functional group wherein the second functional group is selected to be biophobic.

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L5: Entry 1 of 1

File: PGPB

Feb 5, 2004

DOCUMENT-IDENTIFIER: US 20040023414 A1

TITLE: Self-assembling peptide surfaces for cell patterning and interactions

Pre-Grant Publication (PGPub) Document Number:20040023414**CLAIMS:**

1. A device comprising: a solid support; and an array of isolated regions on the support, the array comprising a layer of peptides, wherein the peptides are bound to the support by a bond between the support and a terminal amino acid in a preselected, reproducible pattern. TLZ

2. The device of claim 1 further comprising a background region surrounding the isolated regions, wherein the peptides are not bound to the background region. new

3. The device of claim 2 wherein the background region comprises an inert compound.

4. A device comprising: a solid support; and an isolated region comprising a layer of peptides, wherein the peptides are bound to the support by a bond between the support and a terminal reactive group in a preselected, reproducible pattern.

5. The device of claim 4 comprising a plurality of isolated regions of a self-assembled monolayer, the plurality of regions defining an ordered array on the support. new

6. A device comprising: a solid support; an isolated region comprising a self-assembled monolayer of peptides, wherein the peptides are bound to the support by a bond between the support and a terminal reactive group in a preselected, reproducible pattern; and a background region surrounding the isolated region and comprising a compound which can react with the support. TLZ

7. A device for immobilizing at least one biological material in a specific and predetermined pattern comprising: a surface, an array of immobilization islands in a specific and predetermined pattern over the surface isolated from each other by at least one background region, the array of immobilization islands comprising a first self-assembled monolayer comprising at least one first functional group wherein the at least one first functional group is selected to be biophilic, and wherein the first self-assembled monolayer comprises a monolayer of linear peptides, the at least one background region comprising a second self-assembled monolayer having a second functional group wherein the second functional group is selected to be biophobic.

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